

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source

Date Processed by STIC:

10/647,519 TFW0 21/3/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm , EFS Submission User Manual ePAVE)
- U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- Hand Carry directly to (EFFECTIVE 12/01/03):
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two. 2011 South Clark Place, Arlington, VA 22202
- Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03





IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/647,519

DATE: 02/13/2004

TIME: 12:04:44

Input Set : A:\2314-269seq.txt

Output Set: N:\CRF4\02132004\J647519.raw

```
3 <110> APPLICANT: Fainzilber, Michael M.
             Kits, Karel S.
             Burlingame, Alma L.
             Olivera, Baldomero M.
     6
     7
             Walker, Craig
             Watkins, Maren
     Я
             Shetty, Reshma
     9
    10
             Cruz, Lourdes J.
             Imperial, Julita
    11
   . 12
             Colledge, Clark
             University of Utah Resarch Foundation
    13
             Vrije Universiteit
    14
             Regents of the University of California
    15
    17 <120> TITLE OF INVENTION: Gamma-Conopeptides
    19 <130> FILE REFERENCE: 2314-147-sq2
                                                                Does Not Comply
C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/647,519
                                                                Corrected Diskette Needed
C--> 22 <141> CURRENT FILING DATE: 2003-08-26
     24 <150> PRIOR APPLICATION NUMBER: US 60/069,706
     25 <151> PRIOR FILING DATE: 1997-12-16
     27 <160> NUMBER OF SEQ ID NOS: 47
     29 <170> SOFTWARE: PatentIn Ver. 2.0
     31 <210> SEQ ID NO: 1
     32 <211> LENGTH: 42
     33 <212> TYPE: PRT
     34 <213> ORGANISM: Artificial Sequence
     36 <220> FEATURE:
     37 <223> OTHER INFORMATION: Description of Artificial Sequence:generic formula
             of gamma-conopeptides
     40 <220> FEATURE:
     41 <221> NAME/KEY: PEPTIDE
     42 <222> LOCATION: (1)..(13)
     43 <223> OTHER INFORMATION: Xaa at residues 1, 2, 3, 4, 5, and 6 may be
              des-Xaa or any amino acid; Xaa at residues 8, 9,
              10, 11 and 12 may be any amino acid; Xaa at
     45
              residue 13 may be des-Xaa or any amino acid.
     48 <220> FEATURE:
     49 <221> NAME/KEY: PEPTIDE
     50 <222> LOCATION: (15)..(19)
     51 <223> OTHER INFORMATION: Xaa at residues 15, 16, 17 and 18 may be any amino
              acid; Xaa at residue 19 is Glu,
              gamma-carboxyglutamate or Gln.
     55 <220> FEATURE:
     56 <221> NAME/KEY: PEPTIDE
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TIME: 12:04:44

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Input Set : A:\2314-269seq.txt
                  Output Set: N:\CRF4\02132004\J647519.raw
  57 <222> LOCATION: (22)..(28)
  58 <223> OTHER INFORMATION: Xaa at residues 22, 23 and 24 may be any amino
           acid; Xaa at residue 25 may be des-Xaa or any
           amino acid; Xaa at residues 27, 28 and 29 may be
           any amino acid.
  61
 , 63 <220> FEATURE:
  64 <221> NAME/KEY: PEPTIDE
  65 <222> LOCATION: (30)..(42)
 66 <223> OTHER INFORMATION: Xaa at residues 30, 31 and 32 may be des-Xaa or
           any amino acid; Xaa at residues 34, 35, 36, 37,
           38, 39, 40, 41 and 42 may be des-Xaa or any amino
           acid.
  71 <400> SEQUENCE: 1
-> 72 Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
                       5
                                          10
  75 Xaa Xaa Xaa Cys Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa
                                       25
                 20
  78 Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
             35
  82 <210> SEQ ID NO: 2
  83 <211> LENGTH: 42
  84 <212> TYPE: PRT
  85 <213> ORGANISM: Artificial Sequence
  87 <220> FEATURE:
  88 <223> OTHER INFORMATION: Description of Artificial Sequence:generic
           sequence of gamma-conopeptides.
  89
 , 91 <220> FEATURE:
  92 <221> NAME/KEY: PEPTIDE
  93 <222> LOCATION: (1)..(13)
  94 <223> OTHER INFORMATION: Xaa at residues 1, 2, 3, 4, 5 and 6 may be des-Xaa
           or any amino acid; Xaa at residues 8, 9, 10, 11
           and 12 may be any amino acid; Xaa at residue 13
   96
           may be des-Xaa or any amino acid.
   99 <220> FEATURE:
   100 <221> NAME/KEY: PEPTIDE
   101 <222> LOCATION: (15)..(22)
   102 <223> OTHER INFORMATION: Xaa at residues 15, 16, 17 and 18 may be any amino
            acid; Xaa at residue 19 is Glu,
            gamma-carboxyglutamate or Gln; Xaa at residue 22
   104
            is Ser or Thr.
   105
   107 <220> FEATURE:
   108 <221> NAME/KEY: PEPTIDE
   109 <222> LOCATION: (23)..(29)
  110 <223> OTHER INFORMATION: Xaa at residues 23 and 24 may be any amino acid;
            Xaa at residue 25 may be des-Xaa or any amino
   111
            acid; Xaa at residues 27, 28 and 29 may be any
   112
            amino acid.
   113
 . 115 <220> FEATURE:
   116 <221> NAME/KEY: PEPTIDE
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RAW SEQUENCE LISTING

TIME: 12:04:44

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RAW SEQUENCE LISTING

TIME: 12:04:44

Input Set : A:\2314-269seq.txt Output Set: N:\CRF4\02132004\J647519.raw 181 <220> FEATURE: 182 <223> OTHER INFORMATION: Description of Artificial Sequence: generic sequence of gamma-conopeptides. 185 <220> FEATURE: 186 <221> NAME/KEY: PEPTIDE 187 <222> LOCATION: (1)..(13) 188 <223> OTHER INFORMATION: Xaa at residue 1 is any amino acid; Xaa at residues 2, 3, 4, 5 and 6 may be des-Xaa or any amino acid; Xaa at residues 8, 9, 10, 11, 12 and 190 13 may be any amino acid. 191 193 <220> FEATURE: 194 <221> NAME/KEY: PEPTIDE 195 <222> LOCATION: (15)..(19) 196 <223> OTHER INFORMATION: Xaa at residue 15 is Ser or Thr; Xaa at residues 16, 17 and 18 may be any amino acid; Xaa at residue 19 is Glu or gamma-carboxyglutamate. 198 200 <220> FEATURE: 201 <221> NAME/KEY: PEPTIDE 202 <222> LOCATION: (27)..(39) . 203 <223> OTHER INFORMATION: Xaa at residues 27, 28, 29, 31, 32, 33, 34, 35, 36 and 37 may be any amino acid; Xaa at residues 38 and 39 may be des-Xaa or any amino acid. 205 207 <400> SEQUENCE: 4 -> 208 Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa 10 15 5 209 211 Xaa Xaa Xaa Cys Cys Ser Asn Ser Cys Asp Xaa Xaa Xaa Cys Xaa Xaa 25 20 212 214 Xaa Xaa Xaa Xaa Xaa Xaa 35 215 218 <210> SEQ ID NO: 5 219 <211> LENGTH: 34 220 <212> TYPE: PRT 221 <213> ORGANISM: Artificial Sequence 223 <220> FEATURE: 224 <223> OTHER INFORMATION: Description of Artificial Sequence:generic sequence of gamma-conopeptides. 227 <220> FEATURE: 228 <221> NAME/KEY: PEPTIDE 229 <222> LOCATION: (1)..(6) 230 <223> OTHER INFORMATION: Xaa at residues 1 and 2 may be des-Xaa or any amino acid; Xaa at residue 3 is Asp, Glu or 231 gamma-carboxyglutamate; Xaa at residues 5 and 6 232 may be any amino acid. 233 235 <220> FEATURE: 236 <221> NAME/KEY: PEPTIDE 237 <222> LOCATION: (7)..(16) 238 <223> OTHER INFORMATION: Xaa at residue 7 is Trp or 6-bromo-Trp; Xaa at residues 9, 10, 13 and 14 may be any amino acid; 239 240 Xaa at residue 16 is Glu or

RAW SEQUENCE LISTING

TIME: 12:04:44

```
Input Set : A:\2314-269seq.txt
                    Output Set: N:\CRF4\02132004\J647519.raw
              gamma-carboxyglutamate.
    243 <220> FEATURE:
    244 <221> NAME/KEY: PEPTIDE
    245 <222> LOCATION: (28)..(34)
    246 <223> OTHER INFORMATION: Xaa at residues 28, 30, 31, 32, 33 and 34 may be
          any amino acid.
   - 247
    249 <400> SEQUENCE: 5
 --> 250 Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Cys Thr Xaa Xaa Ser Xaa
                                              10
    251
        1
    253 Cys Cys Ser Asn Ser Cys Asp Gln Thr Tyr Cys Xaa Leu Xaa Xaa Xaa
                                          25
    254
    256 Xaa Xaa
    260 <210> SEQ ID NO: 6
    261 <211> LENGTH: 32
    262 <212> TYPE: PRT
    263 <213> ORGANISM: Conus pennaceus
    265 <220> FEATURE:
    266 <221> NAME/KEY: PEPTIDE
    267 <222> LOCATION: (1)..(31)
    268 <223> OTHER INFORMATION: Xaa at residue 5 is Trp or 6-bromo-Trp; Xaa at
              residues 14 and 26 are Glu or
    269
              gamma-carboxyglutamate; Xaa at residue 31 is Pro
    270
              or hydroxy-Pro.
    271
    273 <400> SEQUENCE: 6
 --> 274 Asp Cys Thr Ser Xaa Phe Gly Arg Cys Thr Val Asn Ser Xaa Cys Cys
                                                                  15
                                              10
                          5
         1
   · 277 Ser Asn Ser Cys Asp Gln Thr Tyr Cys Xaa Leu Tyr Ala Phe Xaa Ser
                                          25
                     20
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    285 <211> LENGTH: 34
    286 <212> TYPE: PRT
    287 <213> ORGANISM: Conus textile
    289 <220> FEATURE:
    290 <221> NAME/KEY: PEPTIDE
    291 <222> LOCATION: (1)..(34)
    292 <223> OTHER INFORMATION: Xaa at residues 1, 7 and 34 are Trp or
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    293
              gamma-carboxyglutamate; Xaa at residues 31 and 32
     294
              are Pro or hydroxy-Pro.
     295
     297 <400> SEQUENCE: 7
W--> 298 Xaa Leu Xaa Cys Ser Val Xaa Phe Ser His Cys Thr Lys Asp Ser Xaa
                                              10
                          5
         1
     301 Cys Cys Ser Asn Ser Cys Asp Gln Thr Tyr Cys Thr Leu Met Xaa Xaa
                                          25
                      20
     302
     304 Asp Xaa
     308 <210> SEQ ID NO: 8
     309 <211> LENGTH: 39
    . 310 <212> TYPE: PRT
     311 <213> ORGANISM: Conus textile
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/13/2004
PATENT APPLICATION: US/10/647,519 TIME: 12:04:45

Input Set: A:\2314-269seq.txt
Output Set: N:\CRF4\02132004\J647519.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:1; Xaa Pos. 1,2,3,4,5,6,8,9,10,11,12,13,15,16,17,18,19,22,23,24,25,27

Seq#:1; Xaa Pos. 28,29,30,31,32,34,35,36,37,38,39,40,41,42

Seq#:2; Xaa Pos. 1,2,3,4,5,6,8,9,10,1/,12,18,15,16,1/,18,19,22,23,24,25,27

Seq#:2; Xaa Pos. 28,28,30,81/,32,34,35,36,37,38,39,40,41,42

Seq#:3; Xaa Pos. 1,2,3,4,5,6,8,9,10,1/,12,13,15,16,17,18,19,27,28,29,31,32

Seq#:4; Xaa Pos. 33,34,35,36,37,38,39

Seq#:4; Xaa Pos. 33,34,36,36,37,38,39

Seq#:5; Xaa Pos. 1,2,5,8,7,9,10,18,14,16,28,30,31,32,33,34

Seq#:6; Xaa Pos. 5,14,28,34

Seq#:7; Xaa Pos. 1,3,7,16,31,32,34

Seq#:8; Xaa Pos. 1,2,4,10,19,31,34,36,37,39

Seq#:9; Xaa Pos. 9,13,17
 Seq#:9; Xaa Pos. 9,13,17
 Seq#:10; Xaa Pos. 2,3,10,12,18,26,32,33
 Seq#:11; Xaa Pos. 3,5,16,18,22,25,31
 Seq#:12; Xaa Pos. 1,5,8,11
 Seq#:13; Xaa Pos. 5,8,10,15,16,23
 Seq#:14; Xaa Pos. 4,9,12,13,17
 Seq#:15; Xaa Pos. 8,15,16
 Seq#:24; N Pos. 17
 Seq#:36; Xaa Pos. 3,7,8,14,18
 Seq#:37; Xaa Pos. 1
 Seq#:39; N Pos. 12
  Seq#:41; N Pos. 6,9,12,15,18,21,24
  Seq#:42; Xaa Pos. 14,26,31
  Seg#:43; Xaa Pos. 9,13
  Seq#:44; Xaa Pos. 2
  Seq#:45; Xaa Pos. 1,6,7,8,12,17,18,23
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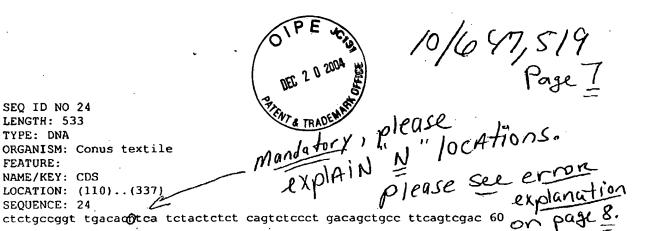
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<400> SEQUENCE: 24

<220> FEATURE: <221> NAME/KEY: CDS

<213> ORGANISM: Conus textile

<222> LOCATION: (110)..(337)



The type of emors shown exist throughout the Sequence Listing. Please check subsequent VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/647,519

DATE: 02/13/2004 TIME: 12:04:45

Input Set : A:\2314-269seq.txt

Output Set: N:\CRF4\02132004\J647519.raw

Use of n's or Xaa's (NEW RULES): EVYOR EXPLANTS
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

```
Seg#:1; Xaa Pos. 1,2,3,4,5,6,8,9,10,11,12,13,15,16,17,18,19,22,23,24,25,27
Seq#:1; Xaa Pos. 28,29,30,31,32,34,35,36,37,38,39,40,41,42
Seg#:2; Xaa Pos. 1,2,3,4,5,6,8,9,10,11,12,13,15,16,17,18,19,22,23,24,25,27
Seq#:2; Xaa Pos. 28,29,30,31,32,34,35,36,37,38,39,40,41,42
Seq#:3; Xaa Pos. 1,2,3,4,5,6,8,9,10,11,12,13,15,16,17,18,19,27,28,29,31,32
Seq#:3; Xaa Pos. 33,34,35,36,37,38,39
Seq#:4; Xaa Pos. 1,2,3,4,5,6,8,9,10,11,12,13,15,16,17,18,19,27,28,29,31,32
Seq#:4; Xaa Pos. 33,34,35,36,37,38,39
Seq#:5; Xaa Pos. 1,2,3,5,6,7,9,10,13,14,16,28,30,31,32,33,34
Seq#:6; Xaa Pos. 5,14,26,31
Seq#:7; Xaa Pos. 1,3,7,16,31,32,34
Seq#:8; Xaa Pos. 1,2,4,10,19,31,34,36,37,39
Seq#:9; Xaa Pos. 9,13,17
Seq#:10; Xaa Pos. 2,3,10,12,18,26,32,33
Seq#:11; Xaa Pos. 3,5,16,18,22,25,31
Seq#:12; Xaa Pos. 1,5,8,11
Seq#:13; Xaa Pos. 5,8,10,15,16,23
Seq#:14; Xaa Pos. 4,9,12,13,17
Seg#:15; Xaa Pos. 8,15,16
Seq#: 24; N Pos. 17 4.
Seq#:36; Xaa Pos. 3,7,8,14,18
Seq#:37; Xaa Pos. 1
<u>Sea#:39; N</u> Pos. 12
Seq#:41; N Pos. 6,9,12,15,18,21,24
Seq#:42; Xaa Pos. 14,26,31
Seq#:43; Xaa Pos. 9,13
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Seq#:44; Xaa Pos. 2

Seq#:45; Xaa Pos. 1,6,7,8,12,17,18,23

VERIFICATION SUMMARY DATE: 02/13/2004
PATENT, APPLICATION: US/10/647,519 TIME: 12:04:45

Input Set: A:\2314-269seq.txt
Output Set: N:\CRF4\02132004\J647519.raw

Output Set: N: \CRE4\02132004\0047513.14W

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L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
M:341 Repeated in SegNo=7
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
M:341 Repeated in SeqNo=9
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
M:341 Repeated in SeqNo=10
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
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M:341 Repeated in SeqNo=13
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
M:341 Repeated in SeqNo=14
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
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L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:1091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
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L:1113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
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L:1140 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:39
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M:341 Repeated in SeqNo=42
L:1206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:1224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:1241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
M:341 Repeated in SeqNo=45
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